

Abstract of the Disclosure

For a pregnancy to be established, communication between conceptus and mother, and implantation of the conceptus on the uterine wall must occur. If a factor mediating the communication between conceptus and mother is investigated and the factor can be used to control the communication, it may be possible to develop a method for treating a disorder such as sterility or preventive measures. Contraception in a safe manner may also be provided. IP-10, which is known as a protein of 10 kDa usually induced by interferon- $\gamma$  is identified as a factor that controls implantation of conceptus on the uterine wall through involving immune responses and activation of conceptus migration during an implantation period, the promotion of implantation of conceptus to the uterine wall, and chemotactic activity. Based on these finding, an agent for treating sterility, promoting pregnancy, inducing implantation of conceptus on the uterine wall, or controlling interaction between conceptus and mother is provided.